S320BML(R) THRU S320YML(R)

STANDARD RECOVERY DIODE STUD TYPES

Features

High Surge Capability
Types up to 1600V VRRM

320 Amp Rectfifier 100-1600 Volts

DO-9 (DO-205AB)

Maximum Ratings

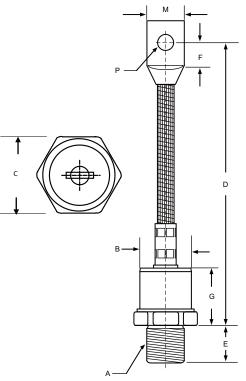
Operating Temperature: -55 $^{\circ}$ C to +180 $^{\circ}$ C Storage Temperature: -55 $^{\circ}$ C to +180 $^{\circ}$ C

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
S320BML(R)	100V	70V	100V
S320DML(R)	200V	140V	200V
S320EML(R)	300V	212V	300V
S320GML(R)	400V	280V	400V
S320JML(R)	600V	420V	600V
S320KML(R)	800V	565V	V008
S320MML(R)	1000V	707V	1000V
S320QML(R)	1200V	848V	1200V
S320YML(R)	1600V	1131V	1600V

Electrical Characteristics @ 25 $^{\circ}$ C Unless Otherwise Specified

tietu itai tiiaratierisuts @ 25 - Oniess Onierwise spetineu						
Average Forward Current	l _{F(AV)}	320 A	Tc=130°C			
Maximum Peak Forward Surge Current	İfsm	6850A	8.3ms , half sine			
I Squared t	i²t	180000A ² s 125000A ² s	T_{vj} =25 °C; 8.310ms T_{vj} =180°C; 8.310ms			
Maximum Instantaneous Forward Voltage *	V _F	1.1V	I _{FM} = 320A. T _J = 25 °C′			
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage	I _R	25 μA 20 mA	TJ=25 °C TJ=180 °C			
Maximum Thermal Resistance Junction To Case	Røjc	0.20 °C/W				
Maximum Transient Thermal Impedance	R ₀ cs	0.03 °C/W				
Mounting torque (+0 -10%)	Inch pounds (in-lb)	270				
Weight		215g				

^{*}Pulse Test: Pulse Width 300 μ sec. Duty Cycle < 2%



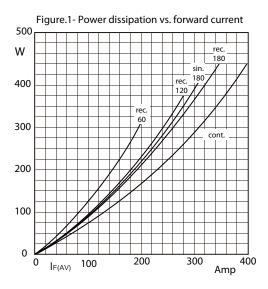
Marking Notes:

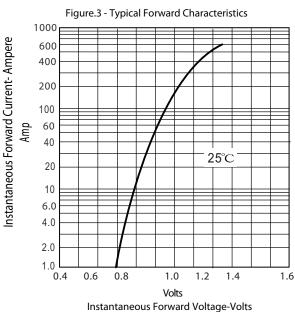
1.Suffix with "R" = Stud Reverse Polarity : Anode to stud 2.None = Stud normal polarity : Cathode to stud

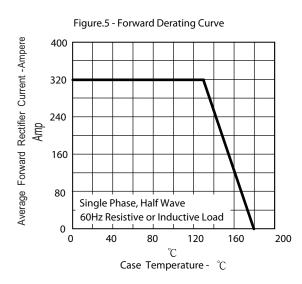
DIM	Inches		Millimeters			
	Min	Max	Min	Max		
Α	M 20 * P 1.5					
В		1.100		27.94		
С	1.240	1.250	31.50	31.90		
D	7.362	7.598	187	193		
E	0.780	0.828	19.60	21.03		
F	0.470	0.530	11.94	13.46		
G		1.122		28.50		
М		0.787		20.00		
Р	0.330	0.350	8.38	8.89		

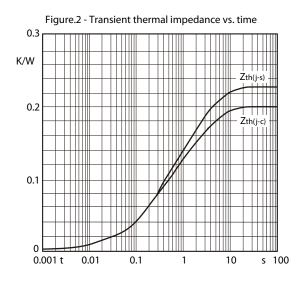


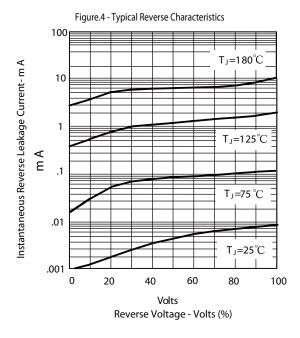
DACO SEMICONDUCTOR CO., LTD. S320BML(R)THRU S320YML(R)

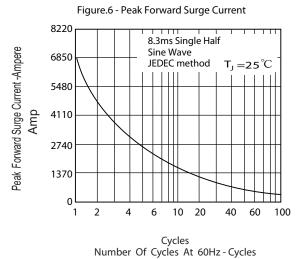












www.dacosemi.com.tw

Nov. 2019

Disclaimer

DACO Semiconductor reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to this document and any product described herein.

DACO Semiconductor makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does DACO Semiconductor assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.

Purchasers is responsible for its products and applications using DACO Semiconductor products, including compliance with all laws, regulations and safety requirements or standards, regardless of any support or applications information provided by DACO Semiconductor. "Typical" parameters which may be provided in DACO Semiconductor data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts.

DACO Semiconductor products are not designed, authorized or warranted to be suitable for use in life support, life-critical or safety-critical systems or equipment, nor in applications where failure or malfunction of DACO Semiconductor's product can reasonably be expected to result in personal injury, death or severe property or environmental damage. DACO Semiconductor accept no liability for inclusion and/or use of DACO Semiconductor's products in such equipment or applications and therefore such inclusion and/or use is at the customer's own risk.

Purchasers buy or use DACO Semiconductor products for any such unintended or unauthorized application, Purchasers shall indemnify and hold DACO Semiconductor and its suppliers and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that DACO Semiconductor was negligent regarding the design or manufacture of the part.

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or any information storage or retrieval system, or otherwise, without the prior written permission of DACO Semiconductor Co., Ltd.